



ECLIPSE Si Upright Microscope

ECLIPSE *Si*

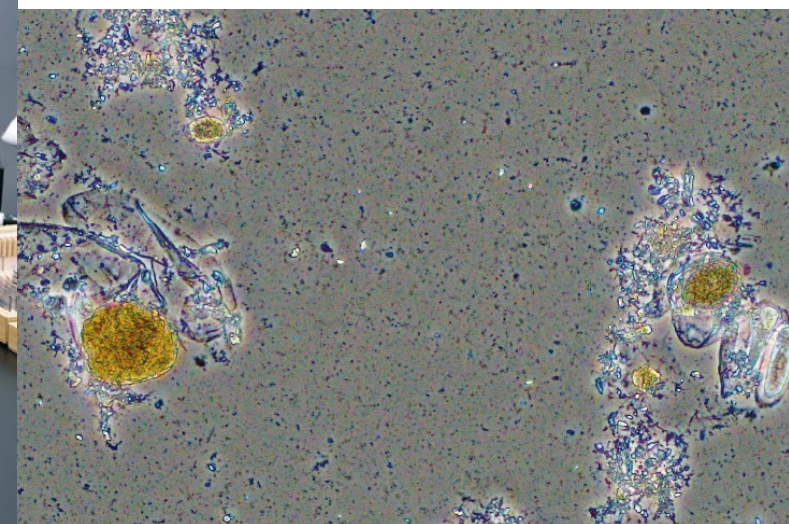
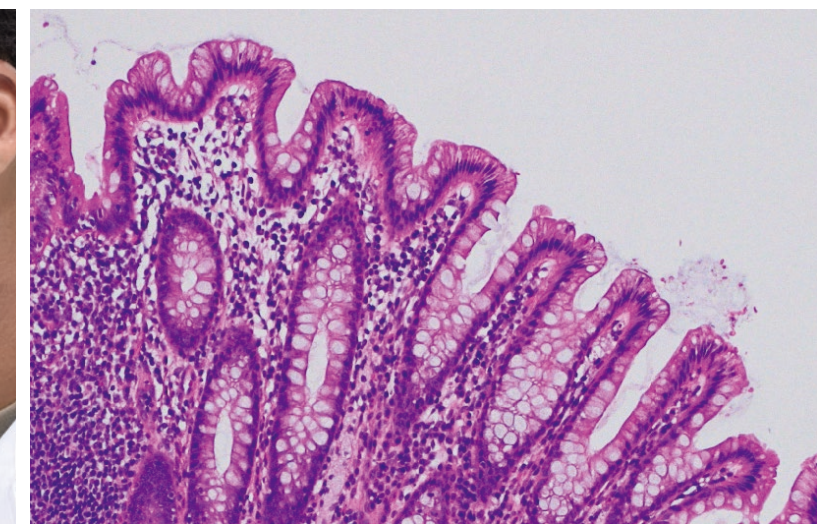
Upright Microscope



Shedding New Light
On **MICROSCOPY**

Focus in comfort. Comfort in focus.

Nikon has designed the ECLIPSE Si to meet the rigorous demands of professionals who spend hours using the microscope. The ECLIPSE Si is ergonomically designed to enhance operational efficiency. This powerful instrument helps you to stay focused for longer by reducing the strain on your body. The ECLIPSE Si is the new standard in microscopes, expanding the possibilities of exploring the micro world.



Pursuing efficient workflow

The ECLIPSE Si has been developed with the primary goal of reducing fatigue during microscope usage. The ECLIPSE Si eliminates unnecessary adjustments and enables efficient and comfortable operation. The ergonomic design also enables natural posture, even when carrying out repetitive tasks.



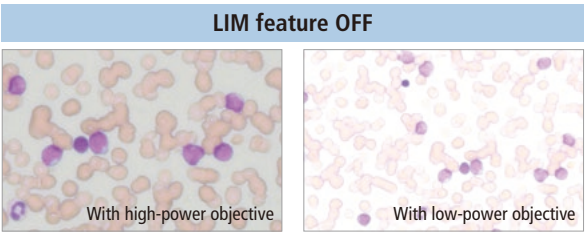
Maintains comfortable brightness when switching magnifications

Objective lenses with different magnifications transmit light to varying degrees. Therefore, light intensity must be adjusted every time the user changes the objective. In addition, when switching from high to low magnification objectives, the sudden increase in brightness often causes eye strain. The ECLIPSE Si features the intelligent Light Intensity Management (LIM) which automatically remembers and sets the light intensity level for each objective. The LIM feature reduces up to 40% of the time spent on adjusting light intensities*. With the ECLIPSE Si, users can increase comfort and save time even when the routine requires frequent magnification changes..

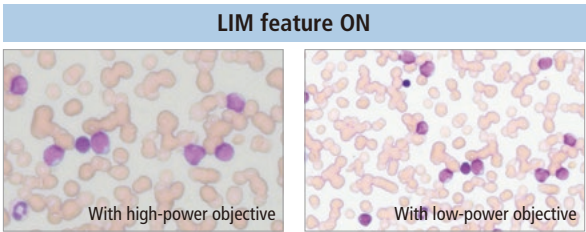
*Compared to a previous LED model as regards time required to change three objectives and adjust light intensities (test carried out by Nikon)



Push the brightness control knob briefly to activate the LIM feature.

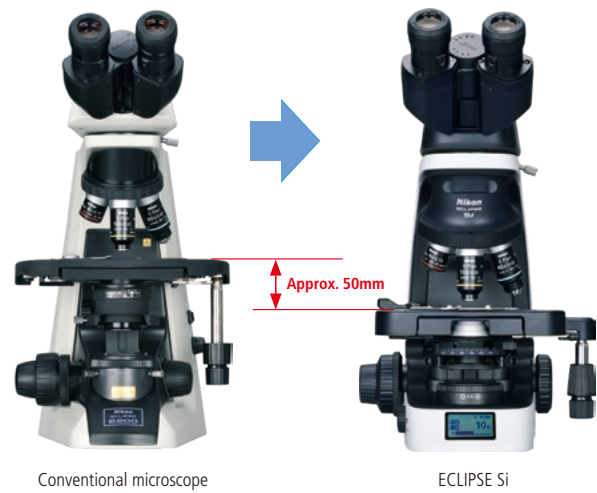


Since brightness varies depending on the objective, switching magnifications can induce eye strain.



The optimal light intensity level is automatically recalled and applied to each objective, therefore eliminating unexpected changes in light intensity when changing magnifications and streamlining workflow.

Low stage for effortless slide replacement



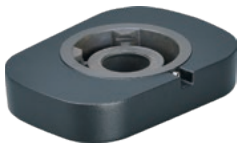
The height of ECLIPSE Si stage is 135 mm, which is about 50 mm lower than our conventional microscopes. The lower stage design reduces the range of motion required to exchange specimen slides, and in turn this can reduce arm and shoulder fatigue. Since the position of the stage movement knob is also lower, different areas on the specimen slide can be easily explored while resting your hands on the table. The lever for opening and closing the specimen holder has also been designed to be ergonomic with an easy-to-operate size and shape. Furthermore, the ECLIPSE Si features a 30% smaller stage compared to our conventional microscopes in order to optimise slide replacement.



Easy-to-operate specimen holder

Enables natural posture to be maintained throughout the entire microscope workflow

The inclination angle of the eyepiece tube is 45 degrees, which enables observation through the eyepieces while maintaining a natural posture. The low stage design also allows you to seamlessly switch from looking through the eyepieces to checking the slide placement on the stage without having to adjust your posture. An optional eye-level riser is also available to further tailor the height of the eyepieces.



Eye-level riser



Check on the stage while maintaining the observation posture

Worry free focusing thanks to vertical stop

The ECLIPSE Si is equipped with a stopper that can be used to set the upper limit of the stage height. The stage stops at the set height even when the focus knob is turned, thereby eliminating the risk of over-focusing and breaking the slides or damaging the objectives. Specimen exchange and focusing can be performed with confidence, without worrying about the stage height.



The stage does not rise above the set height.



Easy operation just by turning the screw at the height you want to set

Pursuing stress-free ease of use

We wanted to design a microscope that would eliminate fatigue incurred by frequent specimen exchanges and provide a more comfortable user experience. The ECLIPSE Si combines innovative features and intelligent design to minimize unnecessary body movements, saving time and reducing strain on the user even when examining a large number of slides.

Adjusting focus and moving the stage with one hand

The coarse and fine focus knobs are located on both sides of the microscope, making it possible to focus with either hand. In addition, the stage handle is positioned close to the focus knob, allowing users to easily adjust both the stage position and focus with the same hand. With the stage movement and focus controlled by the same hand, the other hand can be dedicated to rotating the nosepiece or replacing the slides. These features provide an efficient workflow even when examining a large number of specimen slides.



Coarse focus knob

Fine focus knob

Coarse/fine focus and stage movement can be operated with one hand

Status display

The illumination brightness is shown in a bar graph on the LCD. You can check the magnification at a glance while maintaining your observation posture.



- 1 ECO mode: ON
- 2 LIM function: ON
- 3 Brightness state
- 4 Objective name
- 5 Magnification

Knob rotation direction display

The direction of rotation of the focus and brightness control knobs can be intuitively grasped.



No hesitation in choosing a knob to operate

The icon of the stage movement knob to be operated is illustrated on the travel scale of the specimen in the forward-backward and right-left directions.



Changing magnifications comfortably

The reversed-type nosepiece provides easy access and visibility to the objective lens in use. The position of the nosepiece is low to reduce strain on the arm when frequent magnification changes are required. The nosepiece features an easy grip for smooth rotation, and accommodates up to five objective lenses to provide a wide range of magnifications.



Easy-to-rotate quintuple nosepiece

Blocks blue component in LED light

Since LED light contains a large amount of blue or short wavelength light, there is concern that prolonged observation may put a strain on the eyes. The ECLIPSE Si offers an optional blue light blocking filter that can be placed on the field lens to remove the blue component of the LED light.



Automatically powers off after a period of inactivity

The ECLIPSE Si is equipped with an ECO mode which automatically turns off the illumination after a certain period of inactivity. The length of the inactivity period is adjustable. With ECO mode, the ECLIPSE Si helps you save power without any effort.



Press and hold the brightness control knob to turn on the ECO mode

Easily share images on-site and remotely

Capture specimen images for documentation or for real-time sharing with others by configuring the ECLIPSE Si (trinocular version) with a digital camera.

When the ECLIPSE Si is configured with the Digital Sight 1000 microscope camera (optional), images of specimens can be easily displayed on the monitor for simultaneous observation by multiple people, and recorded without the use of a PC. Furthermore, by connecting the camera to a tablet PC*, images can be shared in real time with remote or off-site PCs and smart devices via a network. The Digital Sight 100* high-definition microscope camera, which faithfully captures the true colors of specimens, is also available.

* NIS-Elements LE imaging software is required for image acquisition.



Digital Sight 1000 microscope camera



Simultaneous observation and display of specimens on a monitor



Share images in real-time with PCs in another room or building

Superior Optics for High Quality Images

Nikon's advanced optical technologies, culminating from a long tradition as a microscope manufacturer, play a vital role in the ECLIPSE Si. The ability to fulfill the need for accurate observation of specimens is a source of pride for us.

Excellent image flatness and chromatic aberration correction

The ECLIPSE Si employs CFI E Plan series objectives, which feature flat, sharp images up to the periphery of the field of view. These objectives are part of the CFI60 infinity-corrected optical system, which achieves both high resolution and long working distances. A wide variety of Nikon CFI60 objectives are available.

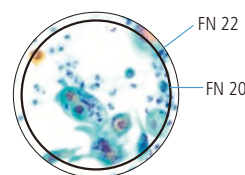


CFI E Plan series objectives

Observation with a field number of 22

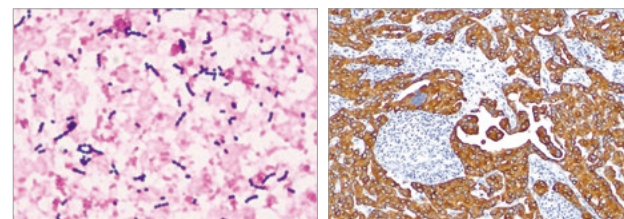
The ECLIPSE Si can enhance the efficiency of clinical observations when equipped with FN 22 tubes* and lenses that enable a large field of view of FN 22.

*C-TB, C-TF, C-TT and C-TE2 tubes



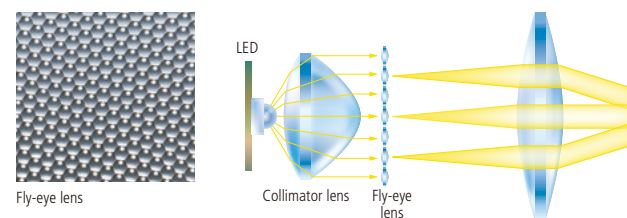
Long-life LED with constant color temperature

The high-intensity, white LED light source, features a long life of up to 60,000 hours. Since the color temperature remains constant even when the brightness is changed, the color of the image does not change when changing magnifications.



Uniform brightness up to the periphery of the field of view

The illumination system features an integrated fly-eye lens which provides uniform brightness over the entire field of view.



Blocking light from outside the field of view

The ECLIPSE Si is equipped with a field diaphragm that can be used to limit the illumination range for optimal observation and image acquisition. Adjusting the field diaphragm suppresses the occurrence of flare and ghosting, enabling high contrast image observation. During fluorescence observation, the range of photobleaching of specimens can also be limited.



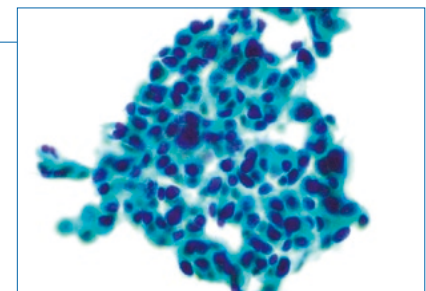
Turn the field diaphragm dial until the illumination range is circumscribed to the field of view.

Compatible with a Wide Variety of Observation Methods

Using optional accessories, the ECLIPSE Si allows for a wide variety of observation methods in addition to bright-field.

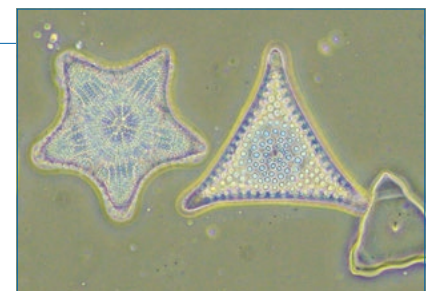
Bright-field observation

High-quality images can be acquired with bright, uniform illumination over the entire field of view, using objectives with superior image flatness and excellent chromatic aberration correction.



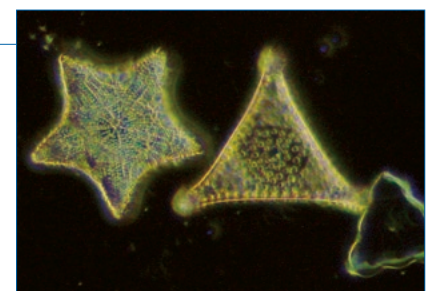
Phase contrast observation

Combining a phase condenser and phase contrast objectives enables observation of colorless and transparent specimens with high contrast, without staining or labeling the specimens with dyes. A standard Abbe condenser, with a PH slider inserted, also allows phase contrast observation.



Dark-field observation

By inserting a slider for dark-field microscopy into the condenser slot and using oblique illumination, light scattered by specimens can be visualized. This method is effective for observation of unstained specimens such as live bacteria and examination of colloidal particles.



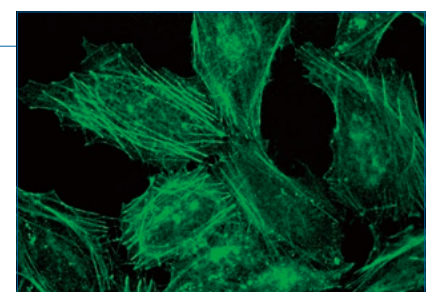
Simple polarizing observation

By attaching a polarizer to the field lens and an analyzer to the eyepiece tube mount, simple polarizing observation can be performed. The polarization state can be adjusted by turning the polarizer.



Diascopic fluorescence observation

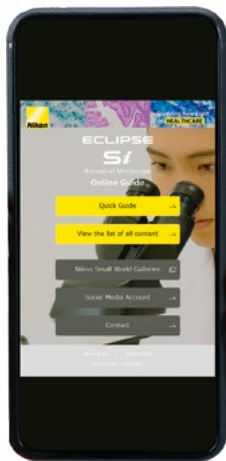
Nikon has developed a unique diascopic fluorescence illumination method that enables easy fluorescence observation without attaching dedicated episcopic illuminator and fluorescence observation equipment. By simply inserting an EX filter slider into the condenser slot and a BA filter slider into the nosepiece slot, fluorescence observation of specimens expressing GFP or stained with fluorescent dyes such as FITC and Alexa 488 can be performed.



Online Guide accessible with a Smartphone

You can access a web-based operation manual for the ECLIPSE Si on your smartphone by simply scanning the QR code sticker attached to the microscope. The Online Guide provides visual instructions including movies that enable you to quickly check how to setup and use the microscope.

*QR code is a registered trademark of DENSO WAVE INCORPORATED.

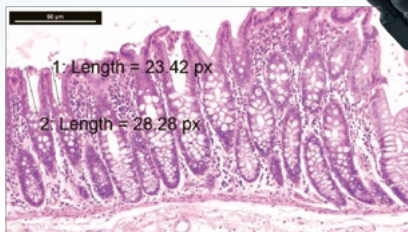


Optional accessories

Digital Sight 1000 microscope camera

Equipped with a 2-megapixel CMOS image sensor, the Digital Sight 1000 can acquire color images and movies of up to 1920 x 1080 pixels. Just connect a monitor* and a mouse, and you can easily capture images without using a PC.

*Via a HDMI cable.



Simple measurements including distances between two points and areas are possible.



Digital Sight 100 microscope camera

This C-mount color camera, equipped with a 1-inch color CMOS image sensor, has a high pixel count of 17.7-megapixels, enabling it to capture clear images with a wide field of view. Its excellent color reproducibility and high-speed live image display enable smooth image acquisition. It also enables the microscope image being observed to be output to a monitor via HDMI connection.

* NIS-Elements LE imaging software is required for controlling the camera.



NIS-Elements LE imaging software

This free software allows easy control of a camera from a desktop PC or tablet, and also includes functions such as annotation and measurement. In combination with the Digital Sight 100, it also supports remote imaging via Wi-Fi.



Teaching Head

Enables simultaneous observation by two people using the same microscope. Available in two types: face-to-face type and side-by-side. Areas of interest can be indicated with the built-in LED pointer.

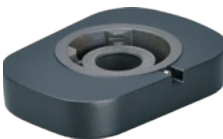


Face-to-face type



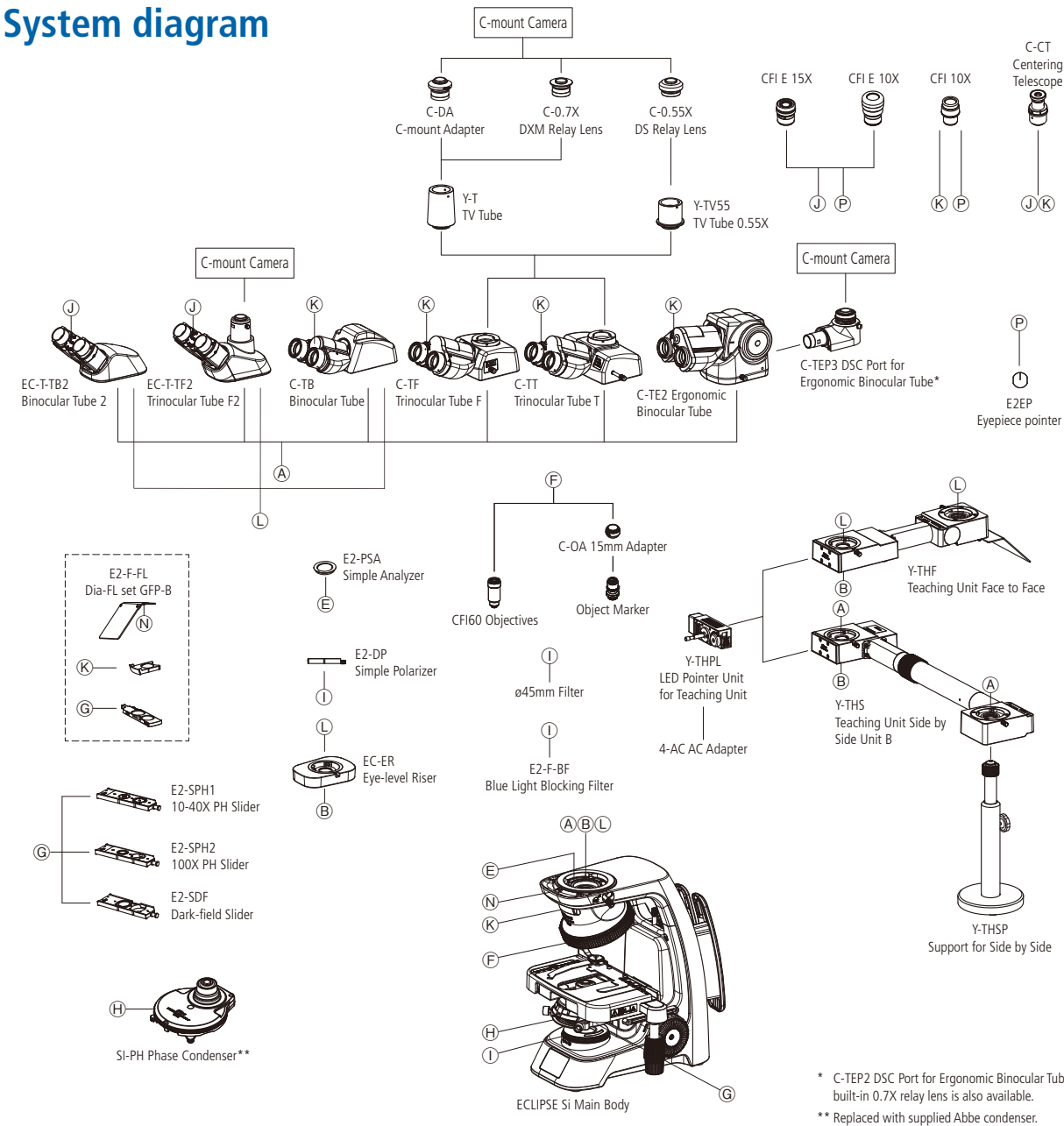
Eye-level Riser

By mounting the eye-level riser under the eyepiece tube, the eyepoint can be raised by 25 mm. The height of the eyepiece can be adjusted to fit the observer, which allows observation in a comfortable posture.



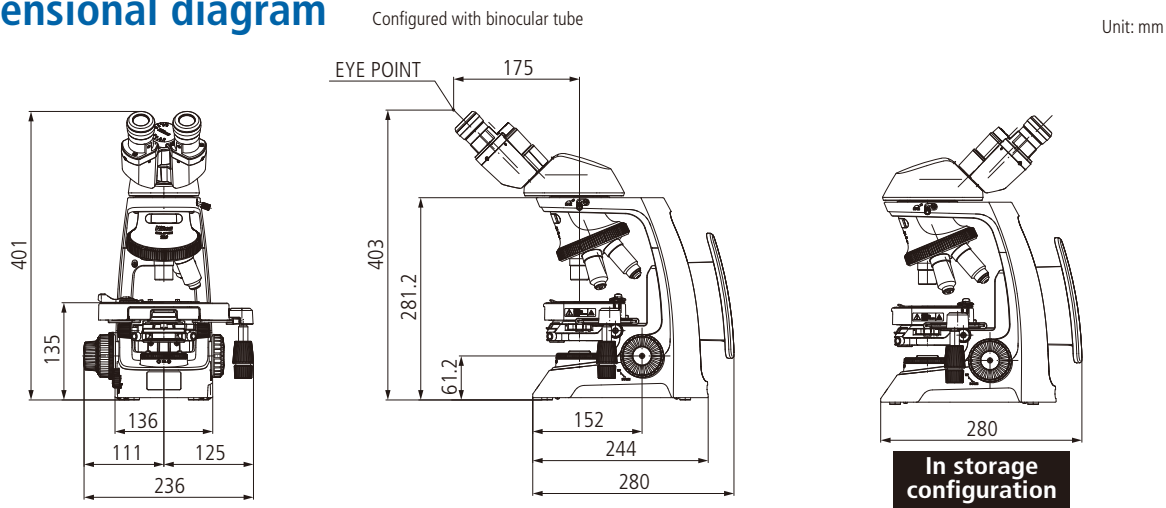
Up to two pieces (50 mm) can be mounted.

System diagram



* C-TEP2 DSC Port for Ergonomic Binocular Tube with built-in 0.7X relay lens is also available.
** Replaced with supplied Abbe condenser.

Dimensional diagram



Specifications

Model name	Main body: ECLIPSE Si
Optical system	CFI60 infinity optical system
Illumination	High luminescent white LED illuminator (Eco-illumination) <ul style="list-style-type: none"> Built-in fly-eye lens Up to two 45 mm diameter filters can be installed*1 Light Intensity Management (LIM) feature included
Focusing	Coaxial coarse/fine focusing (located on both sides), cross roller guide, Focusing stroke: Up 2 mm/Down 13 mm, coarse: 37.7 mm per rotation, fine: 0.2 mm per rotation, minimum reading: 2 µm With coarse focus knob torque adjustment ring and stage vertical movement stopper
Eyepieces (FN)	With diopter adjustment <ul style="list-style-type: none"> E2-CFI 10X (20)*2, E2-CFI 15X (12)*2 CFI 10X (22)*3
Tubes	Inclination angle 45°, pupillary distance: 50-75 mm, eyepoint height: adjustable to 2 positions <ul style="list-style-type: none"> EC-TB2 Binocular Tube 2 EC-T-TF2 Trinocular Tube F2 (Eyepiece: Port: 50:50, built-in 0.55X relay lens in camera port, with C-mount) Inclination angle 25°, pupillary distance: 50-75 mm <ul style="list-style-type: none"> C-TB Binocular Tube C-TF Trinocular Tube F (Eyepiece: Port = 100:0, 0:100) C-TT Trinocular Tube T (Eyepiece: Port = 100:0, 20:80, 0:100) Inclination angle 10°-30°, extension: up to 40 mm <ul style="list-style-type: none"> C-TE2 Ergonomic Binocular Tube (Eyepiece: Port = 100:0, 50:50 via optional C-TEP3 DSC Port C-0.55X)
Nosepiece	Reversed-type quintuple nosepiece (within main body)
Stage	Rectangular mechanical stage (within main body), with specimen holder 2L and vernier calibrations, cross travel: 76 (X) x 52 (Y) mm
Objectives (NA/W.D.)	<ul style="list-style-type: none"> CFI E Plan Achromat 4X (0.1/30mm)*4 CFI E Plan Achromat 10X (0.25/7mm) CFI E Plan Achromat 40X (0.65/0.65mm) CFI E Plan Achromat 60X (0.8/0.3mm)*4 CFI E Plan Achromat 100X Oil (1.25/0.23mm)*4 Other CFI60 objectives can also be used. <ul style="list-style-type: none"> Objectives for phase contrast observation: <ul style="list-style-type: none"> CFI Achromat DL 10X (0.25/7.0mm) CFI Achromat LWD DL 20X (0.40/3.90mm) CFI Achromat DL 40X (0.65/0.65mm) CFI Achromat DL 100X Oil (1.25/0.23mm)
Condenser	Abbe Condenser, NA 1.25, vertically movable and centerable
Observation methods*5	Brightfield, phase contrast, diascopic fluorescence, dark-field, simple polarizing
Fungus-proof treatment	Antifungal paint is applied around optical system
Optional accessories	<ul style="list-style-type: none"> E2-SPH1 10X-40X PH slider/E2-SPH2 100X PH slider (used with an Abbe condenser and phase contrast objectives) SI-PH phase condenser (used with phase contrast objectives) *6 E2-F-FL Dia-FL set GFP-B E2-SDF dark-field slider E2-DP simple polarizer, E2-PSA simple analyzer <ul style="list-style-type: none"> EC-ER eye-level riser E2-F-BF blue light blocking filter Object marker*6, *7 Eyepiece pointer Teaching head
Power supply	Uses the included AC adapter (input: 100-240 VAC, 0.48A Max., 50-60 Hz, output: 5.0 VDC, 3.0A Max.)
Power consumption (max.)	Nominal value: 5 W
Weight	Approx. 6.0kg (when equipped with binocular tube), approx. 6.4kg (when equipped with trinocular tube)

*1 If the thickness is 2.5 mm or less. When a simple polarizer is attached, only one filter can be installed *2 Used in combination with EC-TB2 Binocular Tube 2 or EC-T-TF2 Trinocular Tube F2

*3 Used in combination with C-TB Binocular Tube, C-TF/C-TT Trinocular Tubes or C-TE2 Ergonomic Binocular Tube *4 Cannot be used for dark-field observation

*5 Observations other than brightfield require optional accessories. *6 Not for medical purposes *7 A C-OA 15mm adapter is required

Cooperation between pathological specimens and imaging guidance: Dr. Yasushi Nakamura, Pathologist, Osaka Cytopathological Laboratory

Digital Sight 1000 and Digital Sight 100 microscope cameras, and NIS-Elements LE imaging software are not for medical purposes.

Specifications and equipment are subject to change without any notice or obligation on the part of the manufacturer.

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 WARNING	TO ENSURE CORRECT USAGE, READ THE CORRESPONDING MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT.
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Appropriate export procedure shall be required in case of export from Japan.

*Products: Hardware and its technical information (including software)



ECLIPSE Si product page



Nikon Healthcare Business Unit website



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